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CENTRAL INTELLIGENCE AGENCY Office of the Chief, Economic Research Office of Research and Reports

Project Action Memorandum

Project No. 20,1030 Date: 20 January 1956

TIME: Free World versus Sire-Soviet Bloc Energy Availability

REGISTER: DCI

Problem To compare one y availability in the US and USSR and in the Gree World and Sino-Soviet Bloc, stressing relative rates of growth.

Terms of Reference: The project will result in a memorandum to the DCI with accommuning page-size charts.

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Project Monitor:

		Man-hours	Due Dates	Concurrence (Initials)
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Staff:	St R			M M
Principal Analyst		x3843		,

x2803

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This project will delay completion of Projects 25.676, 25.683 and 10.803

The classification of this project will be no higher than SECRET.

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Approved For Release 2001/04/27 : CIA-RDP79T01049A00130017000 F

Table 1. Primary Energy Production for Selected Years and Growth Rates for Selected Periods Sino-Soviet Bloc VS. Free World by Principal Regions and Categories

Trillions of BTU (DTVE 1012)

Item No.	Region and Category	1940 Production	1946 Production	Aver. Ann. Growth, % 1941-46	1950 Production	Aver. Ann. Growth, % 1947-50	1955 Production	Aver. Ann. Growth, % 1951-55	1960 Production (Plan or Forecast)	Aver. Ann. Growth, % 1956-60
I	Sino-Soviet Bloc									
1	L. USSR - Total a. Solid fuels b. Oil and gas c. Hydroelectric power	7,016 5,510 1,490 16	6,198 5,080 1,100 18	-2.1 -1.4 -4.9 2	9,693 7,770 1,880 43	11.8 11.2 15.0 4,3 22 24,3	13,760 10,230 3,450 80	7.3 5.7 12.9 13.2	22,610 15,030 7,380 200	10.4 8.0 16.4 20.2
2	 European Satellites Total Solid fuels Oil and gas Hydroelectric power 	5,304 4,960 340 4	3,803 3,450 346 7	-5.4 -5.9 0.3 10	5,383 4,930 446 7	9.1 9.3 6.6 0	7,604 6,660 930 14	7.1 6.2 15.8 15 14.9	9,930 8,750 1,160 20	5.5 5.6 4.5 7.4
3	B. Communist China b/ a. Solid fuels b. Oil and gas' c. Hydroelectric power	1,500 1,490 <u>e</u> /	57 9 560 4 15	-14.7 -15.0 d/ 7	1,214 1,220 4 20	21.1 21.5 0 7	2,476 2,440 20 16	14.8 14.9 38 -4	3,820 3,700 70 50	9.1 8.7 28.5 26
L	 Sino-Soviet Bloc - Total Solid fiels Oil and gas Hydroelectric power 	13,820 11,960 1,830 30	10,580 9,090 1,450 40	-4.5 -3.2 -3.8	16,320 13,920 2,330 70	11.4 11.2 12.6 15	23,840 19,330 4,400 110	7.9 6.8 13.5 9.5	36,360 27,480 8,610 270	8.8 7.3 14.4 19.7
II	Free World									
	a. Solid fuels b. Oil and gas c. Hydroelectric power Free World less US - Total a. Solid fuels b. Oil and gas c. Hydroelectric power	24,810 13,580 11,020 210 24,000 20,220 3,330 450	31,210 15,810 15,080 3200 21,400 15,750 5,190 460	3.9 2.6 5.4 7.3 -1.9 -4.1 7.7 0.4	34,320 14,860 19,070 390 29,310 19,060 9,580 670	2.4 -1.5 6.0 5.1 8.2 4.9 16.6	38,520 13,020 25,050 450 36,760 20,210 15,490 1,060	2.3 -2.6 5.6 2.9 4.6 1.2 10.1 9.6	հկ,900 11,020 30,400 480 45,620 21,350 22,700 1,570	3.1 1.5 3.9 1.3 4.4 1.1 7.9 8.2
3	 Free World - Total Solid fuels Oil and gas Hydroelectric power 	48,810 33,800 14,350 660	52,610 31,560 20,270 780	1.3 -1.1 5.9 2.8	63,630 33,920 28,650 1,060	4.9 1.8 9.0 8.0	75,280 33,230 40,540 1,510	3.4 -0.4 7.2 7.3	90,520 35,370 53,100 2,050	3.8 1.3 5.5 6.3
<u>III </u>	Relationships in the Production of Primary Energy (Percent)									
1 2	. Sino-Soviet Bloc/Free World . USSR/US	28.3 28.3	20.1 19.9		25.6 28.2		31.7 35.7		40.2 50.4	

For 1940 and 1946, data cover same countries as in 1950, 1955 and 1960.
 Includes North Korea, Outer Mongolia and Viet Minh.
 Less than 0.5 trillion BTU.
 Not computed.

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The USSR is beginning to utilize natural produced
with produced with produced with produced with produced and produced in the sixth Five-Year

Plan calls for increasing natural gas production from 8.1
million metric tons in 1955 — Il percent of liquid

patroleum production to 32 million metric tons in 1960 —
equal to one quarter of liquid petroleum production. In

contrast, US natural gas production was 200 million metric
tons in 1955 — over half liquid production.

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A significant difference between the US and USSR is in the relative production for use of notional gas. In both countries large gountities of natural gas are cultindrawn from Underground deposite in the production of oil. In the Us nearly, all of this gas is now considered and who had while in the USSR nearly all of is wasted. For example in 1955 the Aratio of national gas to oil (including bratual gas liquide) was 200/365 or 0.55, Justile in the USSR the ratio was 8.1/70 of 6.116. The USSR 6+6. FY Plan calls for a very large merease in natural gas production, from 8.1 million for in 1955 to 37 million metric Lows in 19600 This can only de acrowy hished if very extensive notical gas trans lines planned, are actually built,